



INTRODUCTION

EnSight can compute the following boundary layer parameters:

boundary layer thickness	named: (bl_thickness)
displacement thickness	(bl_displ_thickness)
momentum thickness	(bl_momen_thickness)
shape parameter	(bl_shape_parameter)
skin friction coefficient	(bl_skin_friction)

You must have a 2D surface in a 3D field and specify the 2D surface as the parent part(s).

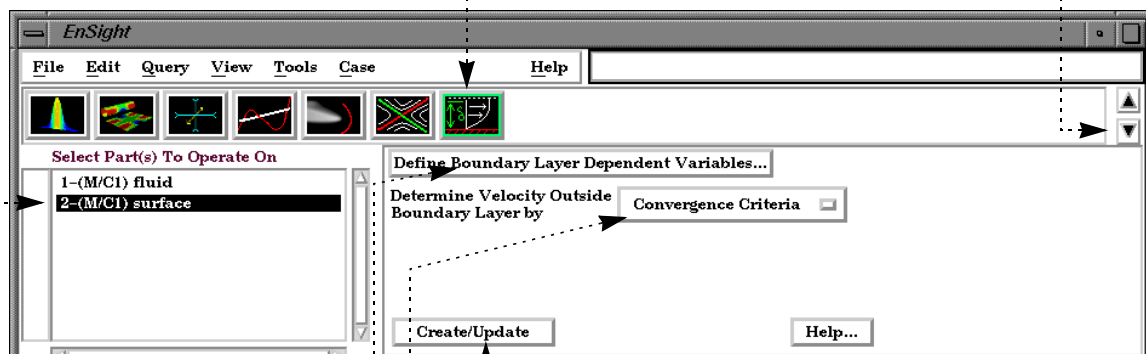
For a complete description of these variables, refer to the User Manual section below.

BASIC OPERATION

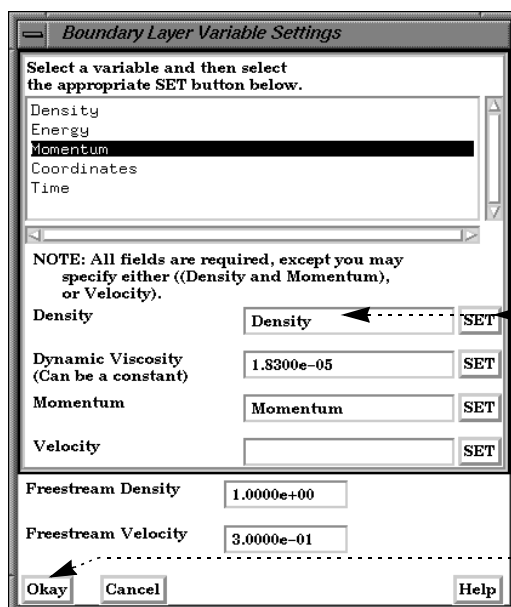
1. Select the 2D parent part(s).

2. Click the Boundary Layer variable icon...

(Note: This icon is on the second row of icons. Click here if you do not see this icon),



3. Bring up the dialog defining the necessary variables by clicking here.



4. Define either (Density and Momentum) or velocity.

The variables can be set by either typing them into the fields, or selecting them from the list and clicking on the Set button.

6. Choose the method that will be used to determine the velocity outside the boundary layer.

7. Click Create/Update.

5. Click Okay to finish the variable setup.

This will create the five new variables, which can be used for further operations - such as part coloring.

SEE ALSO

User Manual: [Boundary Layer Variables Create/Update](#)